

FISCAL YEAR 2003 FUNDING PLAN

for the

CLEANUP AND REDEVELOPMENT FUND

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Michigan Department of Environmental Quality
Remediation and Redevelopment Division

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FISCAL YEAR 2003 CLEANUP AND REDEVELOPMENT APPROPRIATION FUNDING PLAN SUMMARY

The Department of Environmental Quality (DEQ) receives funding from the Cleanup and Redevelopment Fund (CRF), Environmental Protection Fund (EPF), and state general funds to implement its cleanup and redevelopment programs. This document outlines the DEQ's Fiscal Year 2003 (FY03) planned cleanup projects. It includes the sites identified in the FY03 appropriation bill PA 520 of 2002 for the Remediation and Redevelopment Division's (RRD) Leaking Underground Storage Tank (LUST) Cleanup Program and the Cleanup and Redevelopment Program. The RRD will also use the funds for emergency cleanup actions. Projects to be funded by Clean Michigan Initiative Bond funds are not included in this document.

FY03 Funding Sources

The CRF was created under Section 8 of Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). Money from the fund may be used for the required match of federal dollars expended at a Superfund site, emergency response actions at sites, health or environmental problems, National Priorities List, municipal landfill cost-share grants, and response activities at sites that will facilitate redevelopment.

The EPF was created under Section 324.503a, Environmental Protection Fund, of the NREPA. The fund includes deposits from the sale of the economic share of royalty interest the state holds in hydrocarbons produced from Devonian or Antrim shale qualifying for the nonconventional fuel credit contained in Section 29 of the Internal Revenue Code of 1986. The EPF is to be used for the Environmental Cleanup and Redevelopment Program.

In addition, \$3,042,800 has been appropriated from the general fund/general purpose (GF/GP) for the DEQ's LUST Cleanup Program.

FY03 Funding Request

Under Section 13(3) of Part 201 of the NREPA, the DEQ must seek an annual appropriation from the CRF. As part of this request, the DEQ must submit a list of the cleanup project sites where it is proposing to expend funds along with the following information for each site: name, response activities planned, and estimated cost of these activities. The request may include a lump-sum amount for emergency cleanup actions.

For FY03, the DEQ has received an appropriation of \$8,200,000 from the CRF, \$11,049,800 from the EPF, and \$3,042,800 from the GF/GP for cleanup programs in the RRD as shown on the following page.

Program	CRF	EPF	GF/GP	Total
Environmental Cleanup and Redevelopment	\$3,234,000	\$11,049,800		\$14,283,800
LUST Cleanup	\$966,000		\$3,042,800	\$4,008,800
LUST Emergency Cleanup Actions and Contingencies	\$2,000,000			\$2,000,000
Emergency Cleanup Actions and Contingencies	\$2,000,000			\$2,000,000
Total	\$8,200,000	\$11,049,800	\$3,042,800	\$22,292,600

This document provides program information and lists of the planned RRD cleanup projects. The information is provided in two sections:

- Section I provides the program information and lists of sites/projects for the LUST Cleanup Program.
- Section II provides the program information and lists of sites/projects for the Environmental Cleanup and Redevelopment Program.

SECTION I

LEAKING UNDERGROUND STORAGE TANK

LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUP PROGRAM

The RRD is responsible for the implementation of the state's LUST Cleanup Program under Part 213, Leaking Underground Storage Tanks, of the NREPA.

To carry out its planned FY03 LUST Cleanup Program, the RRD will use a combination of funding sources as indicated below:

Funding Source	Cleanup Projects	Emergency Cleanup Actions/Contingencies
FY03 Cleanup and Redevelopment Funds	\$966,000	\$2,000,000
FY03 General Funds	\$3,042,800	
TOTALS	\$4,008,800	\$2,000,000

The facilities planned for state-funded corrective actions under the CRF were selected based on their acute health or environmental risks. Examples of such acute risks are fire and explosion hazards, actual or potential impacts to drinking water wells or sensitive environmental receptors (such as surface waters and wetlands), inhalation hazards, direct contact hazards, and releases of free product to groundwater. The sites being nominated for FY03 funding are the sites with the greatest acute risks and where the liable parties are non-viable.

A total of seven cleanup projects are planned for FY03 funding, including both general funds and CRF. A summary of the number of projects and estimated costs per county is provided in the following table.

FY03 LUST CLEANUP PROJECTS BY COUNTY

County	Amount Planned	Number of Sites	County	Amount Planned	Number of Sites
Alger	\$400,000	1	Monroe	\$500,000	1
Eaton	\$1,500,000	2	Montmorency	\$500,000	1
Jackson	\$608,800	1	Newaygo	\$500,000	1
Totals \$4,008,800 – 7 Sites					

The RRD LUST CRF projects planned for FY03 are described in the table "RRD Planned FY03 Leaking Underground Storage Tank Cleanup Projects" which begins on page 5. The projects are listed in county order and the following information is provided for each site:

- **Facility ID Number:** The identification number assigned to the facility.
- **Site Name, Address, City:** The name, street address, and city in which the site is located.
- **County:** County in which the site is located.
- **Reason Proposed:** A brief description of the acute human health or environmental risks associated with the site.
- **Planned Actions:** A brief summary of the response actions planned for the site.

- **Estimated FY03 Funds Required:** The amount of FY03 funding that RRD estimates will be required to complete the planned actions.

EMERGENCY CLEANUP ACTIONS AND CONTINGENCIES PROGRAM

The RRD plans to use \$2,000,000 in FY03 CRF for LUST contingencies and emergency actions as identified by the division. Examples for use of these funds are:

- Abating imminent fire and explosion hazards.
- Abating imminent public health hazards.
- Mitigating the discharge of regulated substances to surface waters and other sensitive environmental receptors.
- Providing bottled water to residences with contaminated drinking water until there is a permanent resolution.
- Emergency drinking water treatment technology or well replacements.
- Monitoring of drinking water wells that are threatened by contamination from LUSTs.
- Assessment of suspect sites to evaluate acute risk.

RRD PLANNED FY03 LEAKING UNDERGROUND STORAGE TANK CLEANUP PROJECTS
(County Order)

Facility ID Number	Site Name, Address, City	County	Reason Proposed	Planned Actions	Estimated FY03 Funds Required
00010184	Melstrand General Store N8501 County Road H-58 Shingleton	Alger	Extent of groundwater contamination is undefined. One private drinking water well has been replaced and three more are threatened.	Define extent of groundwater contamination and take corrective actions to abate any risks to threatened wells.	\$400,000
00040538	5-Star Pizza 103 North Main Street Bellevue	Eaton	Several of the former USTs were set in or on top of the bedrock aquifer. Soils above the aquifer are highly contaminated. The surrounding area is serviced by private wells that are set in this aquifer.	Remedial investigation to identify risks to aquifer and corrective actions to abate any risks discovered.	\$500,000
00037035	Keweenaw Party Store 4288 West Saginaw Grand Ledge	Eaton	Extensive free product. Site is located one-half to one mile from the city of Grand Ledge municipal water supply system.	Interim free product recovery, remedial investigation, and corrective actions to abate risks to water supply.	\$1,000,000
00018830	Vandy's Party Store 801 East McDevitt Jackson	Jackson	Groundwater is contaminated with benzene, toluene, ethylbenzene, xylene, and methyl-tertiary-butyl-ether. Site is located near an elementary school, a church, five interconnected lakes, and the Grand River.	Remedial investigation and corrective actions to abate risks to public health and surface waters.	\$608,800

Facility ID Number	Site Name, Address, City	County	Reason Proposed	Planned Actions	Estimated FY03 Funds Required
00037946	Mike's Quality Meats (former) 474 Saline Road Petersburg	Monroe	Site is a former gasoline station and subsequently a repair shop. Trichloroethylene contamination threatens nearby drinking water wells.	Remedial investigation and corrective actions to abate risks to drinking water wells.	\$500,000
00033354	Stoddard's A-1 Party Mart 230 North State Street Hillman	Montmorency	Highly contaminated soil is leaching to groundwater, which is migrating off-site and impacting adjacent storm sewer above groundwater surface water interface criteria. The impacted storm sewer discharges into the Thunderbay River.	Hydrogeological investigation to determine extent of impact in all media, risk-assessment, and abate acute risks. Focus of work will be elimination of source soils that are leaching to groundwater.	\$500,000
50005093	Up North Gift Co. 10656 North Bingham Bitely	Newaygo	Possible abandoned UST. Free product and groundwater contamination above risk-based screening levels is present. Located up-gradient from a lake and private drinking water wells.	UST removal, if present. Remedial investigation and corrective actions to abate risk to surface water.	\$500,000
	Total				\$4,008,800

SECTION II

CLEANUP AND REDEVELOPMENT

CLEANUP AND REDEVELOPMENT PROGRAM

The RRD is responsible for the implementation of the state's Environmental Cleanup and Redevelopment Program under Part 201 of the NREPA. The CRF funds, established under Section 8 and implemented under Section 13 of Part 201 of the NREPA, provide for the identification, risk assessment, evaluation, and cleanup of sites of environmental contamination. State-funded cleanups, including emergency cleanup actions, are conducted in compliance with Part 201. This provides for state-funded cleanup activities at sites of environmental contamination where the liable party will not or cannot take the needed actions, cleanup of contaminated sites to promote redevelopment, and match of federal funds expended on cleanups at federal Superfund sites.

To carry out its planned FY03 Cleanup and Redevelopment Program, the RRD will use a combination of funding sources as summarized below:

Funding Source	Cleanup Projects	Emergency Cleanup Actions/ Contingencies
FY03 Cleanup and Redevelopment Fund	\$3,234,000	\$2,000,000
FY03 Environmental Protection Fund	\$11,049,800	
TOTALS	\$14,283,800	\$2,000,000

Section 8 of Part 201 of the NREPA establishes the CRF and Section 13(5) of Part 201 of the NREPA directs that CRF expenditures first satisfy Superfund match requirements, emergency response needs, and actions to address acute health or environmental problems. If funds remain, 50 percent of the remainder is to be expended for response actions that facilitate the redevelopment of urbanized areas. The other 50 percent of the remainder is available to address non-acute health and environmental problems and to perform cleanups to facilitate redevelopment in non-urbanized areas.

A total of 33 FY03 RRD projects -- 9 of which are being planned by the RRD for state funding for the first time. The total estimated cost of the 33 projects is \$14,283,800 as follows:

- A total of 32 cleanup and redevelopment projects are planned for FY03 funding. The estimated cost of the projects is \$13,783,800.
- The Water Division oversees periodic monitoring of drinking water throughout the state at sites of potential contamination to ensure compliance with public health criteria. The estimated cost for sampling and analytical costs involved in monitoring drinking water wells is \$500,000.

A summary of the 32 RRD cleanup and redevelopment projects planned for FY03 -- **by project type** -- is provided below.

PROJECT TYPE	Number of Projects	Total Estimated Project Costs
REDEVELOPMENT PROJECTS <i>Sites that have redevelopment potential. All of these sites <u>also</u> have an acute public health and/or environmental problem.</i>	3	\$850,000
ACUTE HEALTH AND ENVIRONMENTAL PROJECTS <i>Sites that have an acute public health and/or environmental problem.</i>	20	\$10,145,300
OPERATION AND MAINTENANCE PROJECTS <i>Sites other than those noted above, that have an ongoing operation and maintenance need.</i>	7	\$2,265,000
SUPERFUND MATCH PROJECTS <i>Projects where state funds will be used to match federal Superfund dollars.</i>	2	\$523,500
TOTAL	32	\$13,783,800

A summary of the planned FY03 RRD cleanup and redevelopment projects – **by county** – is provided in the chart below.

**FY03 RRD CLEANUP PROJECTS
PLANNED FUNDING BY COUNTY**

County	Amount	Number of Sites	County	Amount	Number of Sites
Allegan	\$1,200,000	1	Livingston	\$450,000	1
Berrien	\$1,300,000	1	Monroe	\$1,000,000	1
Calhoun	\$562,500	2	Muskegon	\$1,000,000	1
Cass	\$560,000	2	Oakland	\$1,050,000	2
Charlevoix	\$160,300	2	Oscoda	\$500,000	1
Eaton	\$400,000	1	Ottawa	\$300,000	1
Gladwin	\$500,000	1	St Joseph	\$750,000	1
Gratiot	\$261,000	1	Van Buren	\$255,000	1
Hillsdale	\$220,000	3	Wayne	\$1,265,000	4
Jackson	\$200,000	1	Wexford	\$750,000	2
Kalamazoo	\$1,100,000	2			
TOTAL – 32 Sites -- \$13,783,800					

The 32 RRD cleanup and redevelopment projects planned for FY03 funding are described in the following list: "Planned FY03 RRD Cleanup and Redevelopment Projects" which begins on page 10. Within each section of the list, the projects are listed in county order and the following information is provided for each site:

- **Site ID** -- Number used to identify the site within the state of Michigan.
- **Site Name and Address** -- The name used most commonly for the site, street address, and city in which the site is located.
- **County** -- The county in which the site is located.
- **New Site** -- This column indicates if this is the first time the site has been proposed by the RRD for state funding.
- **Acute** -- This column indicates if the project (in part or in its entirety) is being proposed by the RRD to address an acute public health and/or environmental problem.
- **Redevelopment** -- This column indicates if the project has redevelopment potential.
- **FY03 Estimated Funds Required** -- This column provides the amount of FY03 funds that RRD estimates it will need to complete the project.
- **Actions Needed** -- Actions planned to be conducted to remediate environmental issues or prepare the site for redevelopment.

EMERGENCY CLEANUP ACTIONS AND CONTINGENCIES PROGRAM

The RRD proposes to use \$2,000,000 in FY03 CRF for contingencies and emergency actions identified by the division as the need arises. Examples for the use of these funds include:

- Disposal of barrels that are a threat to public health and the environment.
- Assessment of suspect sites to evaluate acute risk.
- Cleanup of truck, tanker, and railcar spills.
- Provide bottled or alternate water to residences at sites of environmental contamination where the groundwater is impacted.
- Abate an imminent threat to the public health caused by a release of a regulated substance to the environment.

PLANNED FY03 RRD CLEANUP AND REDEVELOPMENT PROJECTS
(County Order)

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
03000221	Saugatuck Twp Contamination Gleason Road Saugatuck	Allegan	X	X		\$1,200,000	Trichloroethylene and other solvents have been identified in residential drinking wells. The proposed action includes water main extension to 70 residences.
11000373	Coloma DCPA Site Little Paw Paw Lake Road Coloma	Berrien	X	X		\$1,300,000	Wells at a school and neighboring residences contain herbicide contamination. Proposed actions are to extend the municipal water system to the school and residences.
13000006	Verona Well Field Emmet Street and Raymond Road Battle Creek	Calhoun		X		\$262,500	Several industries caused contamination of the municipal well field. Liable parties have installed soil vapor extraction systems. Proposed actions include eighteen months of sampling to determine the effectiveness of the remedies in protecting the well field.
13000052	Res Wells Tekonsha – North Plume 1015 and 1019 North Main Tekonsha	Calhoun		X		\$300,000	Wide spread contamination was found in the village and a municipal water system installed. Proposed actions include three years of operation and maintenance on the treatment system.

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
14000002	Cass St Area Edwardburg Cass Street and US12 Edwardburg	Cass		X		\$360,000	Groundwater and soil treatment systems have been installed to address contamination caused by dry cleaning and service station businesses. Proposed actions include three years of operation and maintenance on the groundwater treatment system.
14000027	Sundstrand Heat Transfer 415 East Prairie Ronde Dowagiac	Cass		X		\$200,000	Fabrication of metal products caused groundwater and soil contamination. Remedial actions by liable parties have been inadequate to meet required criteria. Proposed actions include an investigation to define the extent of contamination and evaluate alternatives.
15000055	East Jordan Laundromat 128 South Lake Street East Jordan	Charlevoix	X	X		\$80,000	Dry cleaning operations caused perchloroethylene contamination in soil and groundwater. The contamination is venting to Lake Charlevoix. Proposed actions include remediation of the source area to protect public health and the environment.

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
15000096	Former Boyne City Chemical North Lake Street and Vogel Boyne City	Charlevoix	X	X		\$80,300	Contamination from a charcoal manufacturing plant has caused contamination from phenols above groundwater surface water interface criteria. The contamination is venting to Lake Charlevoix. Proposed actions include source removal to reduce contamination migrating to the lake.
23000149	916 S Main Street Eaton Rapids	Eaton		X		\$400,000	Perchloroethylene contamination exceeds indoor air criteria and is entering storm sewers that discharge to the Grand River. Proposed actions include design and installation of a groundwater treatment system.
26000025	Buckeye Oil Field Sun Oil Road Gladwin	Gladwin		X		\$500,000	Numerous releases of oil and brine at the well head and tank battery caused soil, surface water, and groundwater contamination. Proposed actions include completion of soil removal activities.
29000046	Gratiot County Landfill 7391 Croswell St Louis	Gratiot		X		\$261,000	The landfill cap is not effectively preventing infiltration, the slurry wall is defective, and the existing groundwater extraction system needs upgrading to adequately address contamination. Proposed actions include design of a new landfill cap.

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
30000110	Haischer Oil Rowe Road Mosherville	Hillsdale	X	X		\$60,000	Operations at an oil well and tank battery caused contamination which has not been remediated. Proposed actions include plugging one abandoned oil well and removal of crude oil contaminated soils.
30000155	Wickens Oil Knowles Road North Adams	Hillsdale	X	X		\$80,000	Operations at an oil well and tank battery caused contamination which has not been remediated. Proposed actions include plugging one abandoned oil well and removal of crude oil contaminated soils.
30000147	Penland Oil Hoxie Road North Adams	Hillsdale	X	X		\$80,000	Operations at an oil well and tank battery caused contamination which has not been remediated. Proposed actions include plugging one abandoned oil well and removal of crude oil contaminated soils.
38000030	Spring Arbor Wash & Dry Main Street Spring Arbor	Jackson		X		\$200,000	Dry cleaning operations caused wide spread contamination in the village. A soil vapor extraction system has been installed. Proposed actions include development of a Remedial Action Plan to protect public health.

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
39000030	North 34 th St Area Richland Richland	Kalamazoo		X		\$600,000	Plastic plating and laundry operations caused contamination. Proposed actions include three years of operation and maintenance on the groundwater extraction system.
39000052	Schoolcraft Area Organics West Avenue and South 14 th Street Schoolcraft	Kalamazoo		X		\$500,000	The area includes multiple plumes of contamination from various industries including dry cleaning operations and agriculture products. Proposed actions include design and installation of cleanup systems at the County Mark and the Action Garment portions of the site.
47000099	Main Street Gregory Between M-36 and M-106 Gregory	Livingston		X		\$450,000	Solvent plume in the center of the village has contaminated drinking water wells. Proposed actions include design and installation of groundwater treatment system to protect public safety.
58000024	Zieman Grames Rd Dump 12530 Zieman Road Milan	Monroe		X		\$1,000,000	Drums of paint waste, solvents, and oil sludges caused contamination. The drums have been removed. Proposed actions include soil and free product removal.
61000377	Ruddiman Creek Drum Dump Between Pine Grove and Barclay Muskegon	Muskegon		X		\$1,000,000	Numerous drums were abandoned along the creek. Proposed actions include removal of 16,000 cubic yards of contaminated fill and soil including hazardous waste.

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
63000126	Lapeer Road Res Wells Between Drahner and Telan Oxford	Oakland		X		\$850,000	Multiple industries, including a foundry/stamping plant and service station, caused contamination. Proposed actions include connection of approximately 300 residences to the local municipal water system.
63000165	Waterford Hills Sanitary LF 7900 Gale Road Waterford	Oakland		X		\$200,000	Three years of operation and maintenance on the landfill cap.
68000001	Hoskins Manufacturing East Kittle Road Mio	Oscoda	X	X		\$500,000	Perchloroethylene contamination has been identified in the soil and groundwater which exceeds criteria. An investigation to determine the extent and source of contamination will be conducted.
70000004	Fenske LF Ottawa Co 2637 Wilson Avenue Grandville	Ottawa		X	X	\$300,000	Three years of operation and maintenance on the groundwater treatment system and leachate pumping.
75000119	SW Sturgis TCE Centerville (M-66) and Fawn River Road Sturgis	St Joseph	X	X		\$750,000	Residential drinking wells contain trichloroethylene above criteria. Proposed actions include an investigation to determine the extent and source of contamination. Also, a municipal water main will be extended to connect 23 properties.

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
80000155	Commercial Street Industrial Area Paw Paw	Van Buren		X		\$255,000	Volatile organic compounds contamination levels, including trichloroethylene, exceed criteria. Proposed actions include three years of operation and maintenance on the treatment system.
82000044	Plymouth Industrial Holding Company 13101 Eckles Road Plymouth	Wayne		X	X	\$250,000	Releases from paints, solvents, and other industrial wastes buried on the property have caused contamination. Proposed actions include monitoring groundwater migration to protect public health and the environment.
82000208	General Oil Co 175 Railroad Street Northville	Wayne		X		\$350,000	Oil recycling operations caused contamination. Proposed actions include operation and maintenance of the remediation system.
82001523	Standard Tube of Detroit 24400 Plymouth Road Redford	Wayne		X	X	\$300,000	Contamination has been caused from fuel and lubricating oils used in steel tube manufacturing. Proposed actions include actions to prevent the flow of contaminated groundwater into the Rouge River.
82001634	CYB Tool 42056 Michigan Avenue Canton	Wayne		X		\$365,000	Contamination has been caused by landfill material and waste lagoons. Proposed actions include bank stabilization to address impact to river.

Site ID	Site Name and Address	County	New Site	Acute	Redevelopment	FY03 Estimated Funds	Actions Needed
83000036	AAR Cadillac Mfg 201 Haynes Cadillac	Wexford		X		\$350,000	Liabe parties have installed a groundwater purge and treat system to treat solvent contamination. The system is not adequately addressing the contamination. Proposed actions include defining the plume and conducting remediation to protect public health and the environment.
83000114	Yuma Tar West of Old M-37 Yuma	Wexford		X		\$400,000	A chemical plant for the logging industry caused wood tar waste contamination. Proposed actions include removal of the waste.
Total						\$ 13,783,800	